

# AS-i Power Supply 4 A/8 A

**AS-i Power Supply 4 A**  
90 V AC up to 265 V AC wide range power supply (BW1649)

**AS-i Power Supply 8 A**  
115 V AC/230 V AC power supply with range switch (BW1997)

SELV

LED operation indicator

AS-i data decoupling

Power factor correction



BW1649



BW1997



**Article no. BW1649 AS-i Power Supply 4 A, wide range power supply**

**Article no. BW1997 AS-i Power Supply 8 A, power supply with range switch**

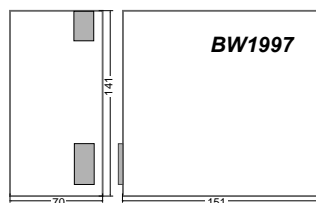
The primary clocked power supply is supposed for fieldbus applications, which transport energy and data via a 2-wire line at the same time.

The AS-i Supply powers a fully loaded AS-i system with a maximum output current of 4.0 A or 8.0 A. The sinusoidal current consumption of the power supply prevents harmonic waves. The current is approx- Due to the accurate and transformic coupling the use of unscreened load lines is possible.

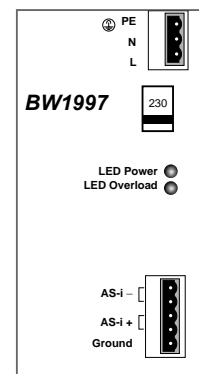
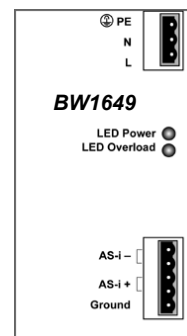
imately in phase with the voltage by means of the passive power factor correction and leads to only a little reactive power. This guarantees a power factor  $\cos\varphi \geq 0,6$ .

Besides the energy supply the power supply takes over also the function of data decoupling to the power source and the balancing of the two AS-i output lines in relation to the machine ground (shield).

Article no.	BW1649	BW1997
<b>Input</b>		
Power factor	approx. 0,6 (according to input voltage)	
Input frequency	47 ... 63 Hz	
Voltage range $U_e$	90 ... 265 V AC	115/230 V AC
Efficiency	approx. 90%	
Input current $I_e$	without idle current at 230 V AC	
	approx. 0,6 A	approx. 1,2 A
Input fuse	internal fuse electronic fuse against external short circuits	
<b>Output</b>		
Output voltage	29,5 V ... 31,6 V DC	
Remaining ripple	according to AS-i Specification	
Output current	4 A	8 A
Current limitation	approx. 4,5 A	approx. 8,5 A
<b>Displays</b>		
LED green (PWR)	power on (at frontside)	
LED red (Overload)	overload error (at frontside)	
<b>Standard conformity</b>		
Protection category (EN 60 529)	IP20	
Standards	EN 60 950	
	UL 60 950	UL 60 950 intended, AS-i certificate intended
Ambient operating temperature	-10°C ... +55°C	
Storage temperature	-40°C ... +85°C	
Dimensions (L / W / H in mm)	129 / 70 / 126	151 / 70 / 141



**Connections:**



**Hints:**

- Clamp GND must be connected with machine ground.
- Air circulation in the power supply may not be disturbed: therefore when mounting see that is at least 3 cm free space down and sufficiently free space above!